LITERATURE SURVEY ON ESTIMATE THE CROP YIELD USING DATA ANALYTICS

S.No	Title	Base Paper Link	Author Name	Content
1.	AGRICULTURE DATA ANALYTICS IN CROP YIELD ESTIMATION	https://www.researchgate.net/publication/329467349_Agriculture_Data_Analytics_in_Crop_Yield_Estimation_A_Critical_Review	B M SAGAR, CAUVERY N K	Agriculture is important for human survival because it serves the basic need. A well-known fact that the majority of population (≥55%) in India is into agriculture. Due to variations in climatic conditions, there exist bottlenecks for increasing the crop production in India. It has become challenging task to achieve desired targets in Agri based crop yield. Various factors are to be considered which have direct impact on the production, productivity of the crops. Crop yield prediction is one of the important factors in agriculture practices. Farmers need information regarding crop yield before sowing seeds in their fields to achieve enhanced crop yield. The use of technology in agriculture has increased in recent year and data analytics is one such trend that has penetrated into the agriculture field. The main challenge in using big data in agriculture is identification of effectiveness of big data analytics. Efforts are going on to understand how big data analytics can agriculture productivity. The present study gives insights on various data analytics methods applied to crop yield prediction and also signifies the important lacunae points' in the proposed area of research.
2.	CROP YIELD PREDICTION WITH DEEP LEARNING AND REMOTE SENSING	https://www.mdpi.com/2072-4292/14/9/1990/pdf	Priyanga Muruganantham , Santoso Wibowo , Srimannarayana Grandhi, Nahidul Hoque Samrat and Nahina Islam	Deep learning has emerged as a potential tool for crop yield prediction, allowing the model to automatically extract features and learn from the datasets. Meanwhile, smart farming technology enables the farmers to achieve maximum crop yield by extracting essential parameters of crop growth. To achieve the aims of this study, prior studies from 2012 to 2022 from various databases are collected and analyzed. The study focuses on the advantages of using deep learning in crop yield prediction, the suitable remote sensing technology based on the data acquisition requirements, and the various features that influence crop yield prediction. This study finds that Long Short-Term Memory (LSTM) and Convolutional Neural Networks (CNN) are the most widely used deep learning approaches for crop yield prediction.

3.	ANALYSIS OF CROP YIELD PREDICTION USING DATA MINING TECHNIQUES	https://ijret.org/volumes/2015v04/i01/IJRET20150401071.pdf	D Ramesh , B Vishnu Vardhan	Agrarian sector in India is facing rigorous problem to maximize the crop productivity. More than 60 percent of the crop still depends on monsoon rainfall. Recent developments in Information Technology for agriculture field has become an interesting research area to predict the crop yield. The problem of yield prediction is a major problem that remains to be solved based on available data. Data Mining techniques are the better choices for this purpose. Different Data Mining techniques are used and evaluated in agriculture for estimating the future year's crop production. This paper presents a brief analysis of crop yield prediction using Multiple Linear Regression (MLR) technique and Density based clustering technique for the selected region i.e. East Godavari district of Andhra Pradesh in India.
4.	CROP YIELD PREDICTION USING MACHINE LEARNING: A SYSTEMATIC LITERATURE REVIEW	https://www.sciencedirect.com/science/article/pii/S0168169920302301	Ayush Purohit, Shardul Singh Chauhan	Handwriting recognition has gained a lot of attention in the field of pattern recognition and machine learning due to its application in various fields. Optical Character Recognition (OCR) and Handwritten Character Recognition (HCR) has specific domain to apply. Various techniques have been proposed to for character recognition in handwriting recognition system. Even though, sufficient studies and papers describes the techniques for converting textual content from a paper document into machine readable form. In coming days, character recognition system might serve as a key factor to create a paperless environment by digitizing and processing existing paper documents. This paper presents a detailed review in the field of Handwritten Character Recognition.
5.	DATA ANALYTICS FOR CROP RECOMMENDATION SYSTEM	http://ir.ahduni.edu.in/xmlui/bitstream/handle/123456789/387/Riddhi_1421013%28Thesis%20Report%29.pdf?sequence=1&isAllowed=y	Riddhi Patel	Agriculture is becoming increasingly information and knowledge centric today. Due to the large rural population, agriculture plays a vital role in Indian economy. In the current scenario, a large number of data is generated from various sources like weather, climate, geo-spatial, crop production, consumed by stakeholders, location specific crop disease in farm practice. But it is not used effectively and optimally by the experts due to lack of information flow. Thus, to bridge the gap between users and information, data analytics can be one of the solution. Crop recommendation system model integrating with data analytics has been proposed. The system consist of components; web services, data analytics, and web application development. The RESTful weather and agriculture web services were built to interaction with various data sources. The web services are developed using JAX-RS in NetBeans IDE. Regression Analysis and

				Time Series Analysis are used to analyses the trends and pattern of agriculture Growth and Production. Crop Recommendation System is carried out for cotton crop in Ahmedabad District, Gujarat. The proto type is developed using MySQL, Java, NetBeans IDE, and RStudio.